

## ABSTRACT

The present invention proposes a new method and a new apparatus for enhancement of audio source coding systems utilising high frequency reconstruction (HFR). It utilises adaptive filtering to reduce artifacts due to different tonal characteristics in different frequency ranges of an audio signal upon which HFR is performed. The present invention is applicable to both speech coding and natural audio coding systems.

1. A method for enhancing an audio signal, comprising the steps of: (a) receiving an audio signal; (b) analyzing the audio signal to determine a frequency range; (c) applying adaptive filtering to the audio signal in the frequency range; and (d) outputting the enhanced audio signal.